

FIG. 1

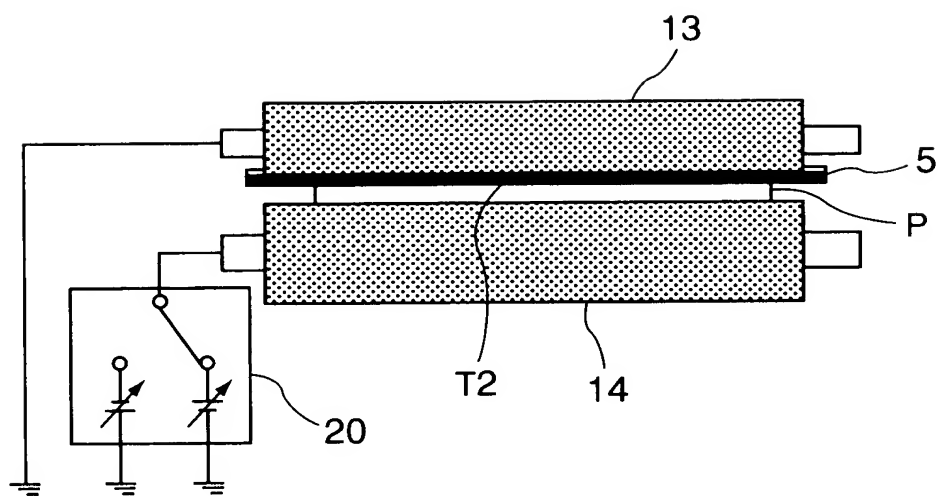


FIG. 2

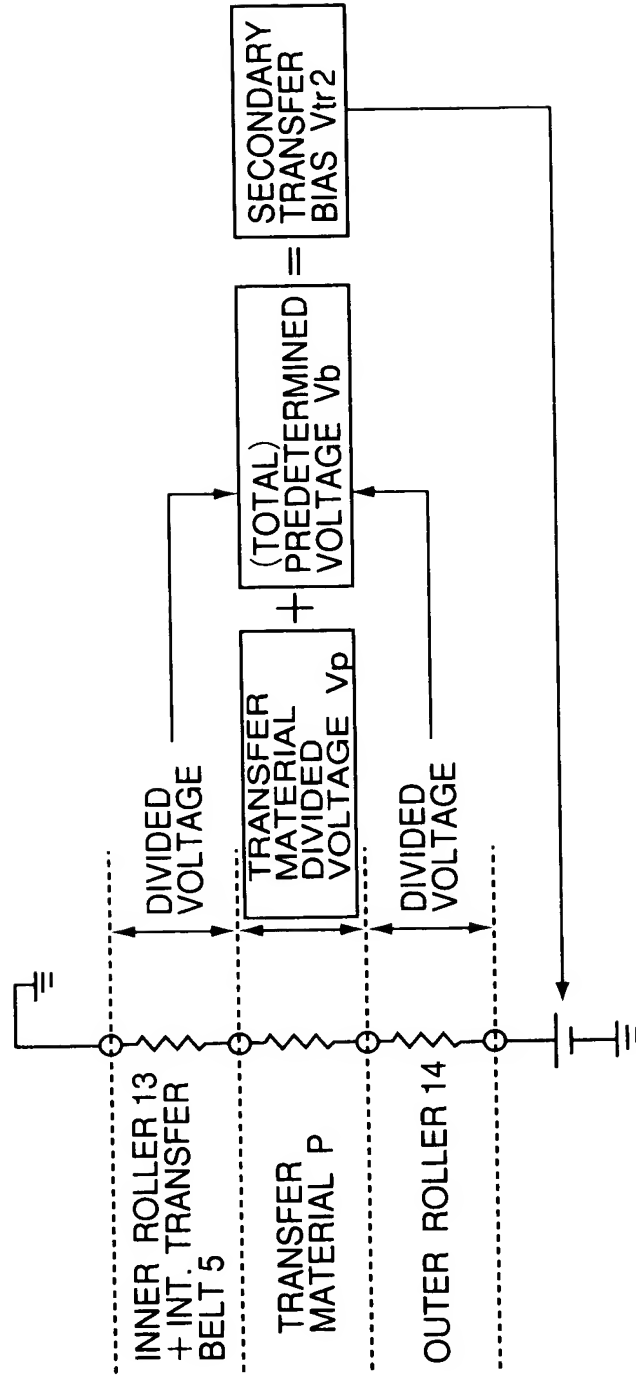


FIG. 3

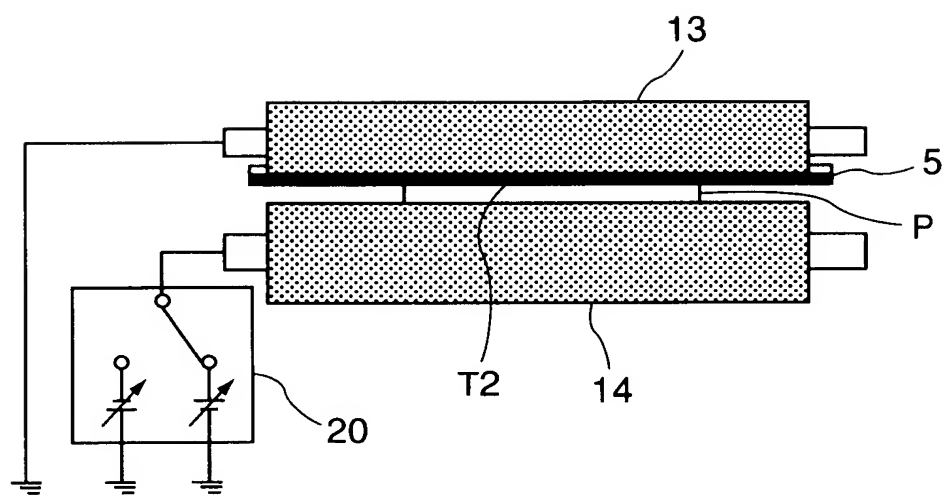


FIG. 4

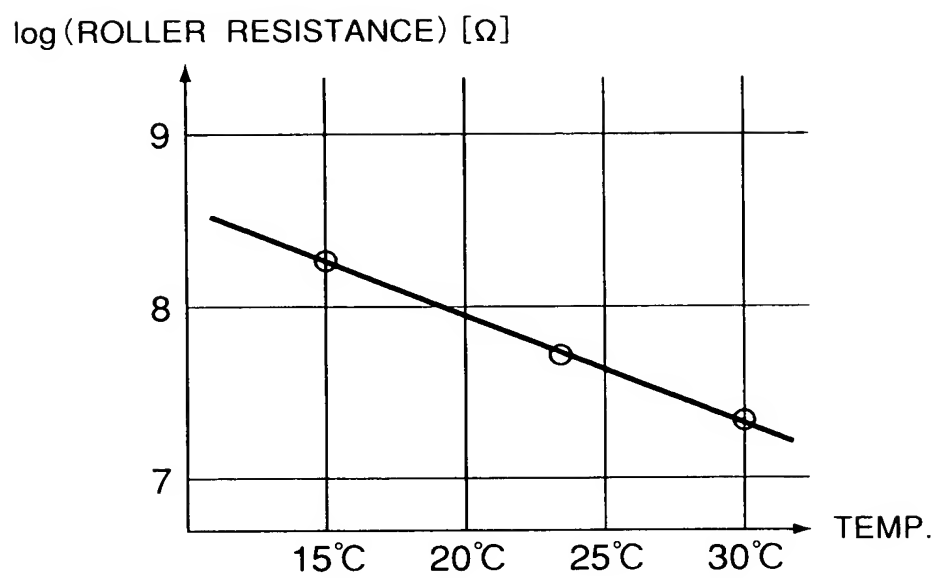


FIG. 5

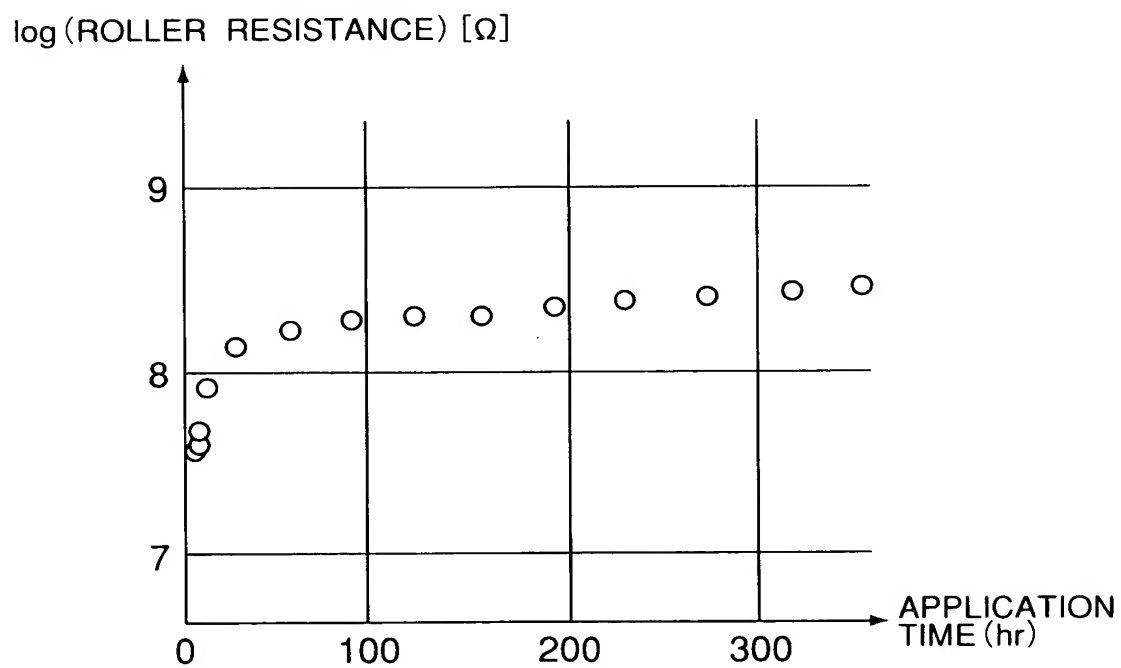


FIG. 6

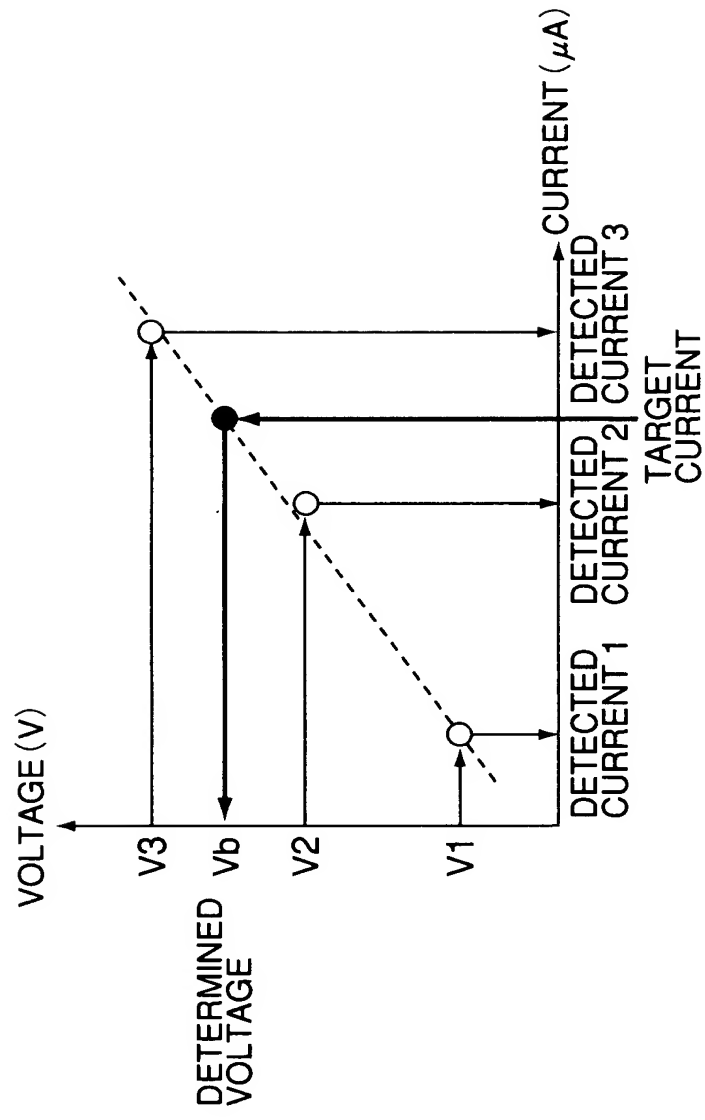


FIG. 7

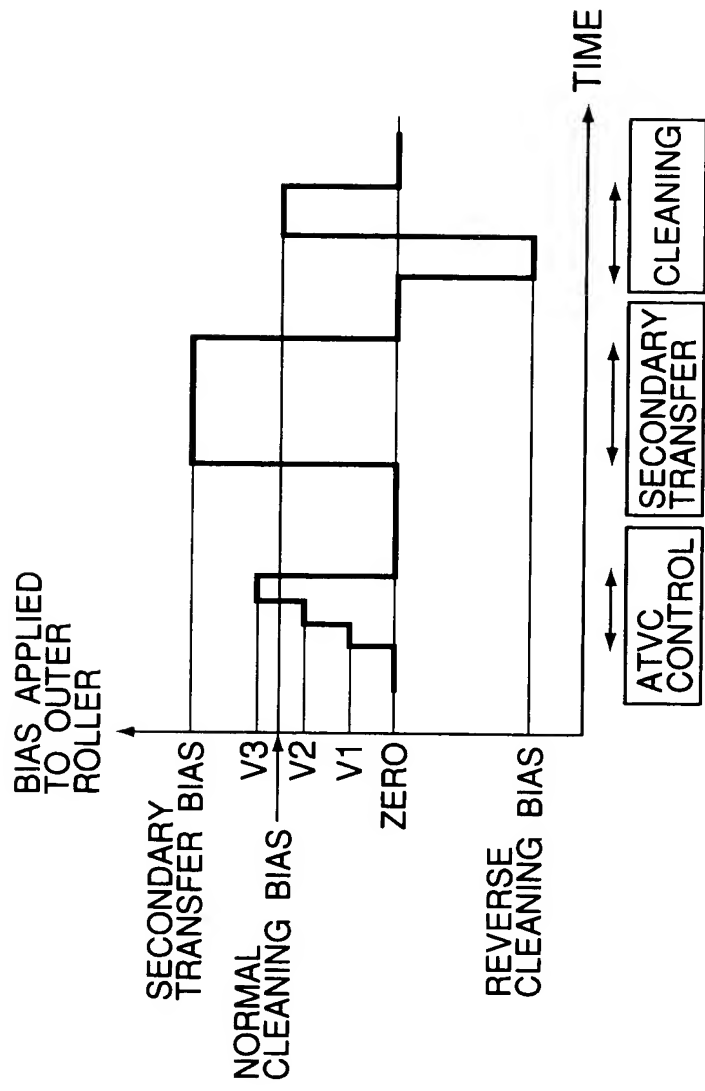


FIG. 8

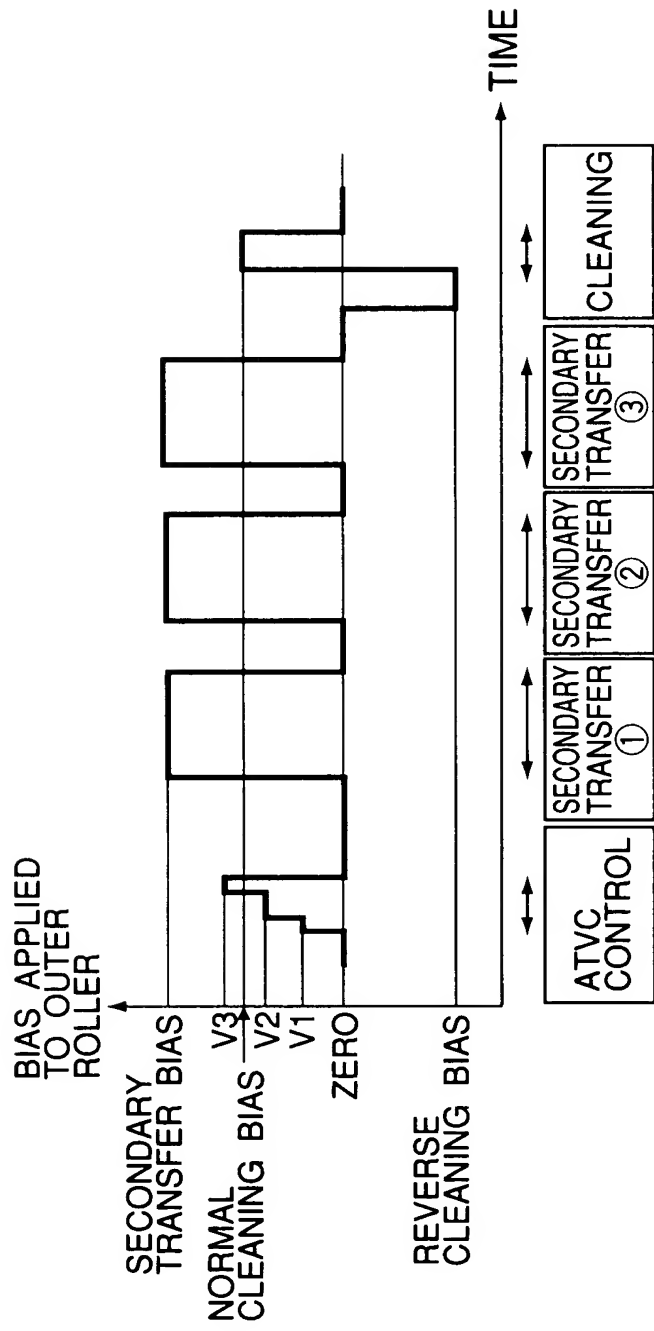


FIG. 9

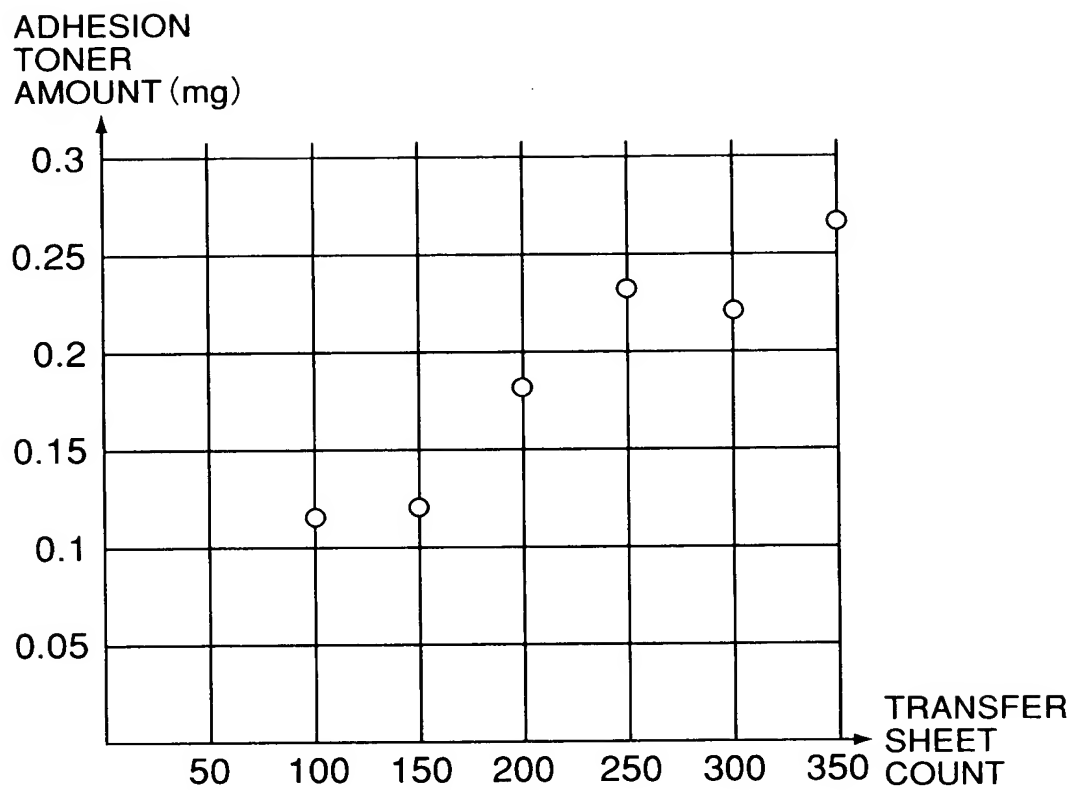


FIG. 10

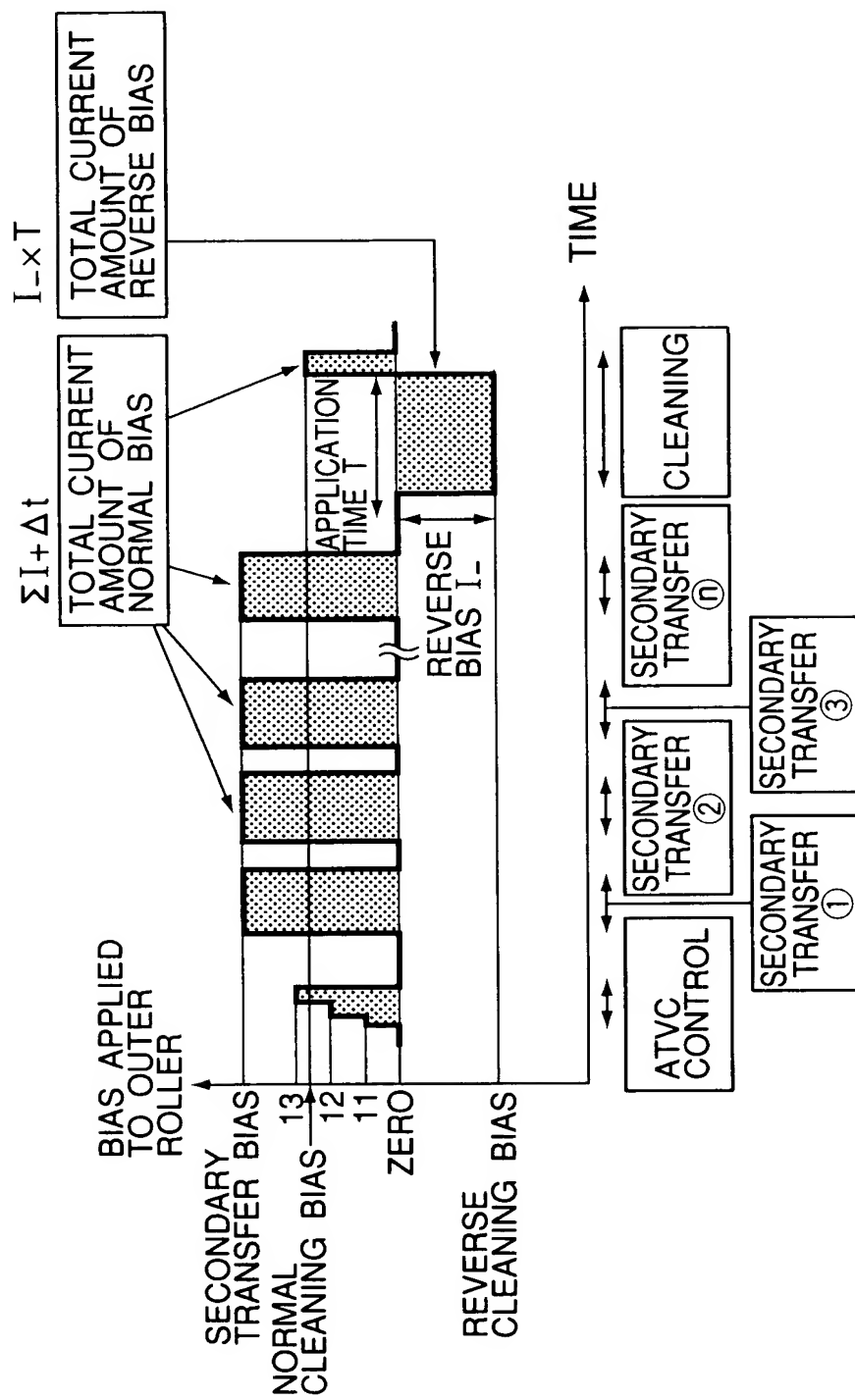
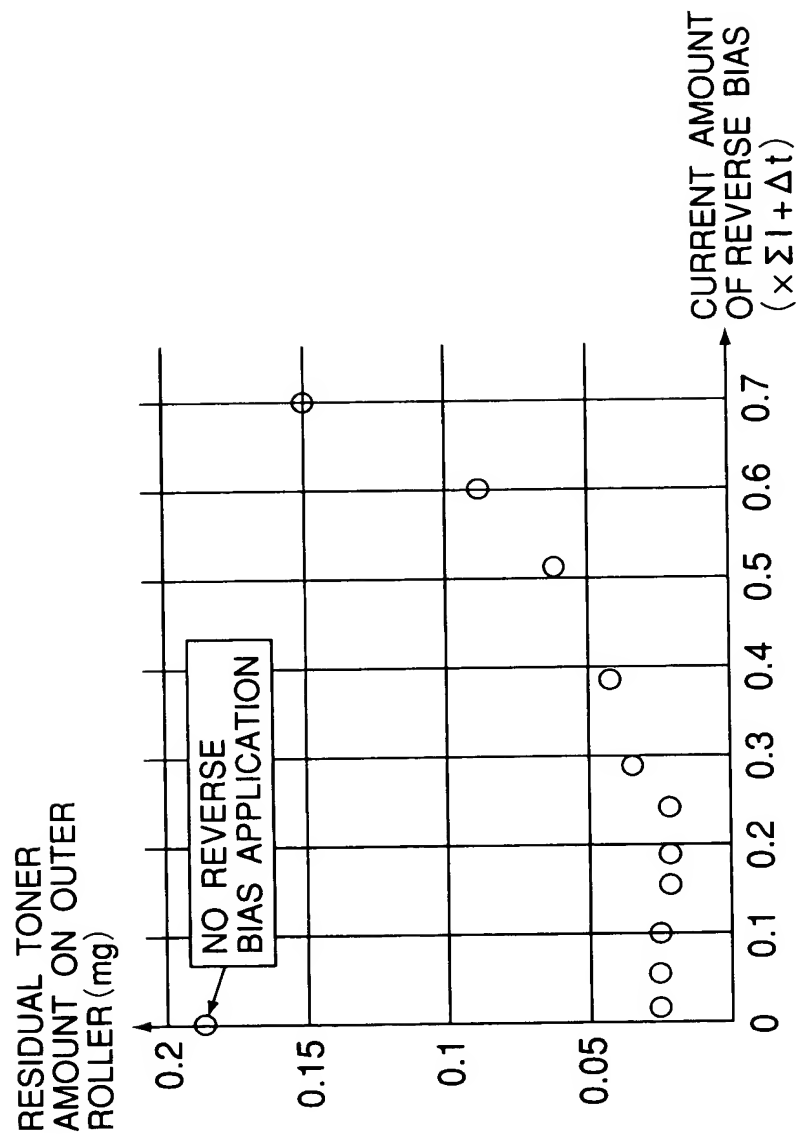


FIG. 11



| REVERSE BIAS CURRENT AMOUNT (μ A) | APPLICATION TIME (ROLLER CIRCUM- FERENCE) | TOTAL CURRENT AMOUNT OF REVERSE BIAS (μ C) | TOTAL CURRENT RATIO OF REVERSE BIAS/NORMAL BIAS | RESIDUAL TONER AMOUNT ON OUTER ROLLER (mg) |
|--|---|---|--|--|
| NO REVERSE BIAS | | 0 | 0 | 0.185 |
| 15 | 1 | 8.7 | 0.023 | 0.025 |
| 30 | 1 | 17.4 | 0.047 | 0.025 |
| 30 | 2 | 34.8 | 0.093 | 0.025 |
| 30 | 3 | 52.2 | 0.140 | 0.02 |
| 30 | 4 | 69.6 | 0.187 | 0.02 |
| 30 | 5 | 87 | 0.234 | 0.02 |
| 30 | 6 | 104.4 | 0.280 | 0.035 |
| 30 | 8 | 139.2 | 0.374 | 0.045 |
| 30 | 11 | 191.4 | 0.514 | 0.06 |
| 30 | 13 | 226.2 | 0.607 | 0.085 |
| 30 | 15 | 261 | 0.701 | 0.15 |

FIG. 13

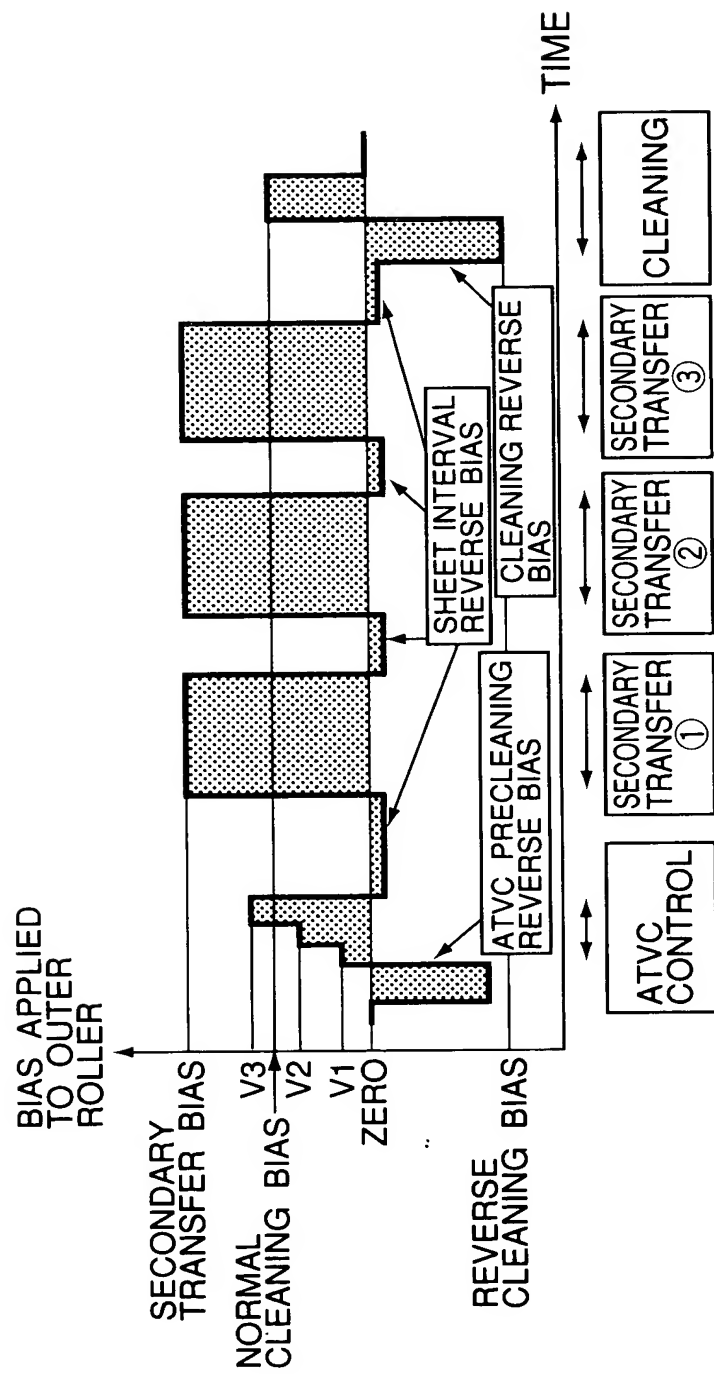


FIG. 14

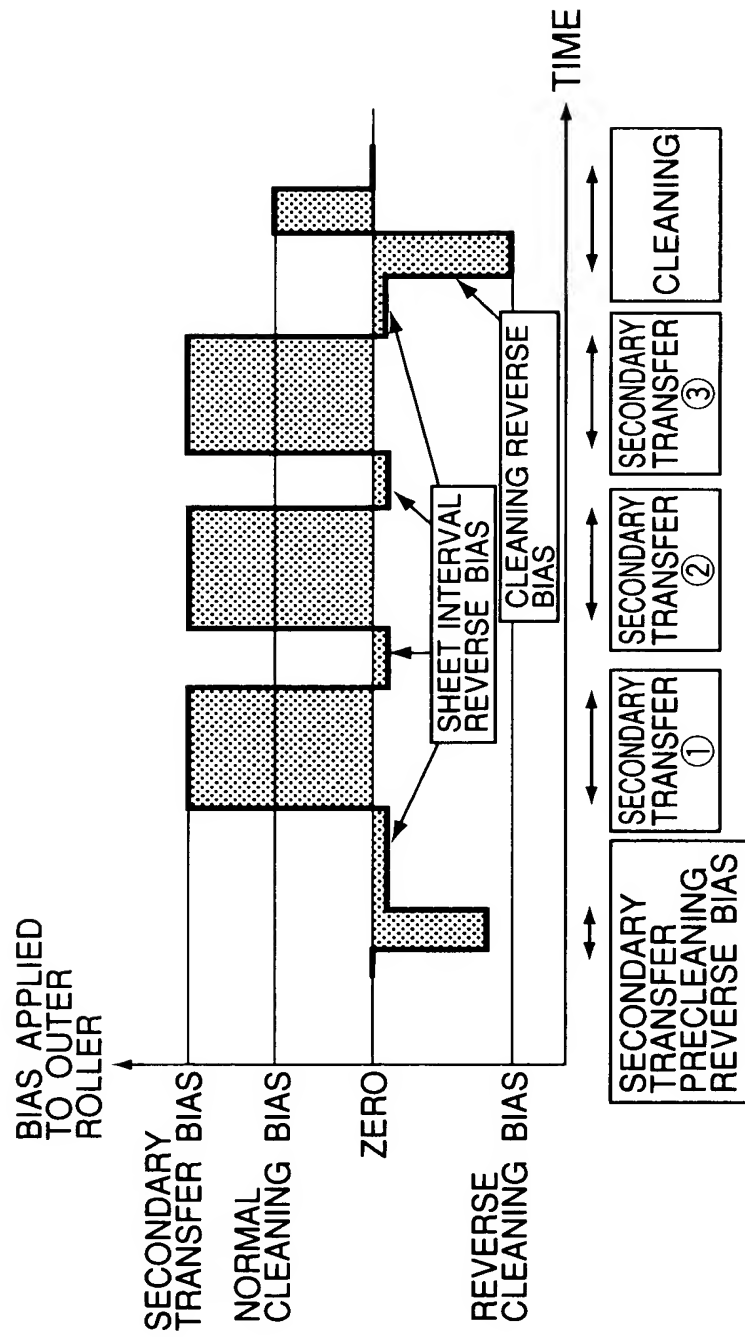


FIG. 15

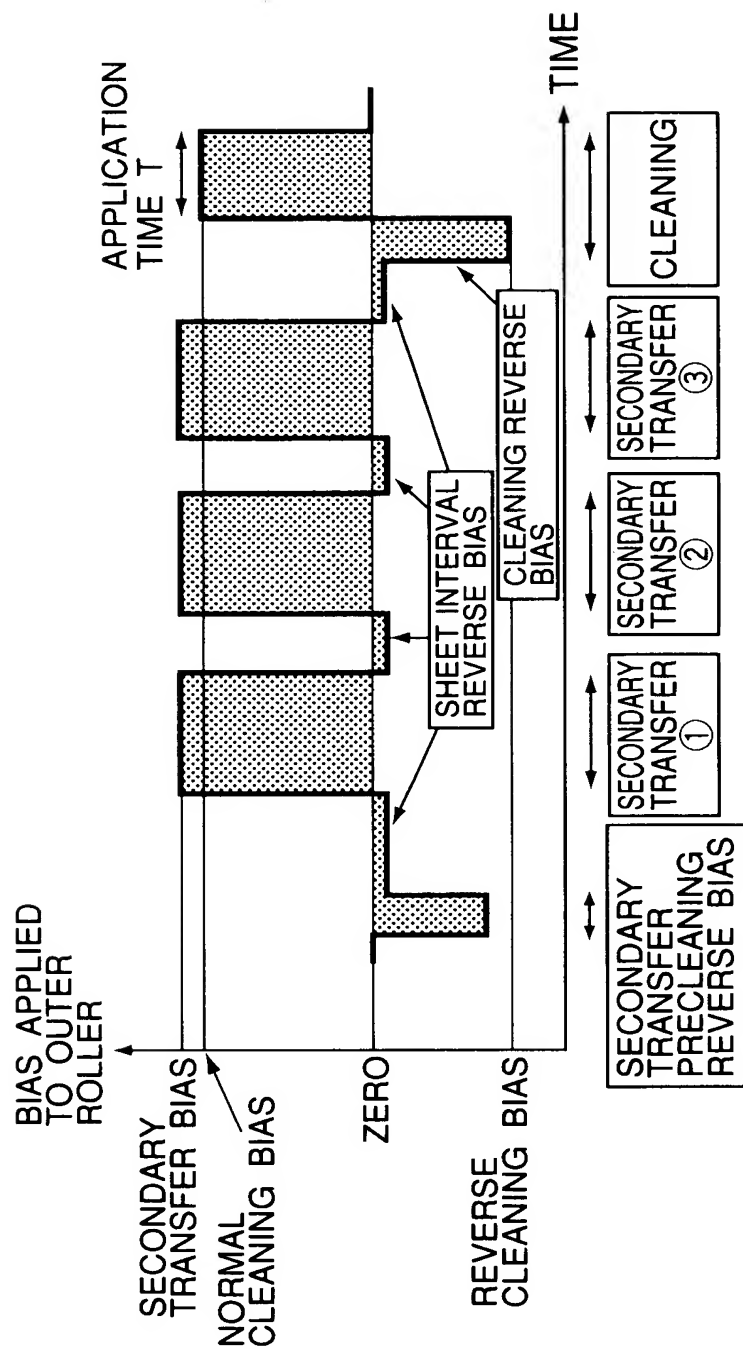


FIG. 16

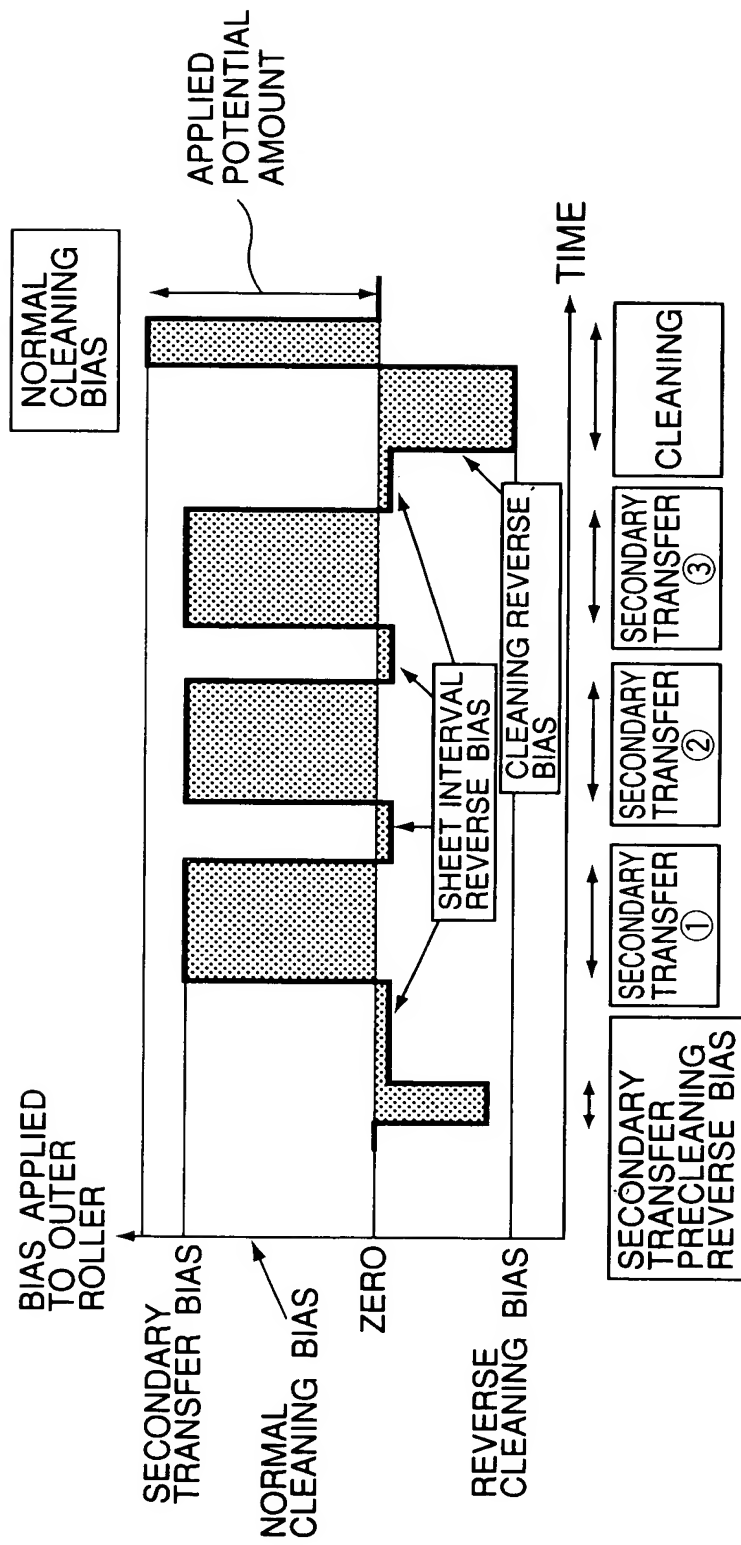


FIG. 17

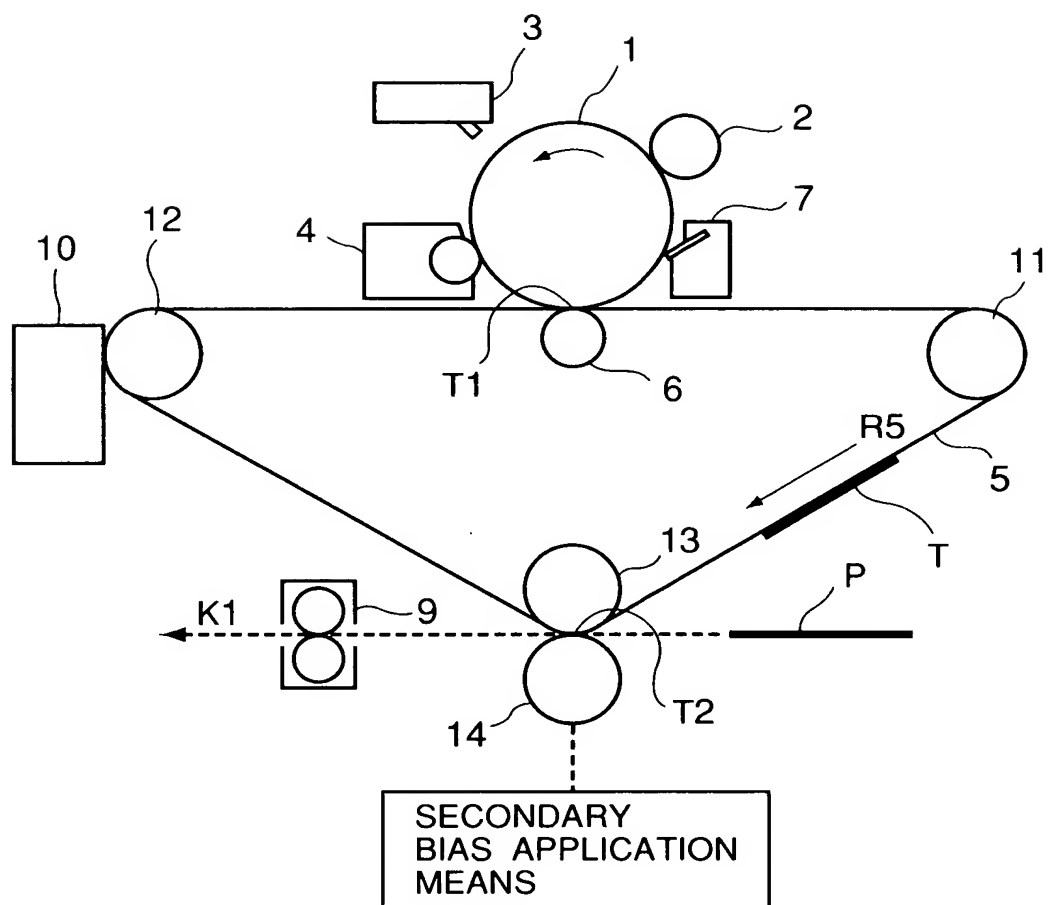


FIG. 18